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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/487,729	01/19/2000	Baik-hee Han	Q57577	3502	
75	590 07/16/2003				
Sughrue Mion Zinn MacPeak & Seas PLLC 2100 Pennsylvania Avenue NW Washington, DC 20037-3202			EXAMINER		
			NATNAEL, PAULOS M		
			ART UNIT	PAPER NUMBER	
			2614		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s)			
Office Action Summary		09/487,729		HAN, BAIK-HEE			
		Examiner		Art Unit			
		Paulos M. N		2614			
Perio	The MAILING DATE of this communication apport for Reply	pears on the c	over sheet with the d	correspondence address			
Α Τ - - -	SHORTENED STATUTORY PERIOD FOR REPLINE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event ly within the statuto will apply and will e e, cause the applica	however, may a reply be tirry minimum of thirty (30) day xpire SIX (6) MONTHS from tion to become ABANDONE	nely filed /s will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
1	N Responsive to communication(s) filed on <u>05</u> ·	<u>May 2003</u> .					
2a	<u> </u>	his action is n	on-final.				
	Since this application is in condition for allow closed in accordance with the practice under						
-	osition of Claims)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
٦	 Liaim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
5) Claim(s) is/are allowed.	, , , , , , , , , , , , , , , , , , ,					
	Claim(s) <u>1-8</u> is/are rejected.						
_) Claim(s) is/are objected to.						
8	Claim(s) are subject to restriction and/o	or election red	uirement.				
Appl	ication Papers						
g)☐ The specification is objected to by the Examine	er.		•			
10) The drawing(s) filed on is/are: a) acce	epted or b)□ o	bjected to by the Exa	aminer.			
	Applicant may not request that any objection to the						
11) ☐ The proposed drawing correction filed on	_ is: a)□ app	roved b)□ disappr	oved by the Examiner.			
	If approved, corrected drawings are required in re		e action.				
12) The oath or declaration is objected to by the Ex	xaminer.					
	rity under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	n priority und	er 35 U.S.C. § 119(a)-(d) or (f).			
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list	ureau (PCT R	ule 17.2(a)).				
14	Acknowledgment is made of a claim for domest		•				
	a) ☐ The translation of the foreign language pro ☐ Acknowledgment is made of a claim for domes	ovisional app	ication has been re	ceived.			
	hment(s)	• • • • • • • • • • • • • • • • • • • •					
1) 🔲	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5		ry (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims **1,2,5**, and **6** are rejected under 35 U.S.C. 102(e) as being anticipated by Tsukagoshi, U.S. Pat. No. 5,034,819.

Considering claim 1, Tsukagoshi discloses all claimed subject matter, note;

- a) the claimed key input for inputting a channel number according to a user's selection is met by Input apparatus 8, (Fig. 1).
- b) the claimed a tuner for tuning to a channel corresponding to the channel number selected by the key input, among received broadcasting signals is met by Tuner 2, (Fig. 1);
- c) the claimed a signal processor for processing a composite video signal of said channel tuned and output from the tuner is met by video receiving circuit 4, (Fig. 1);

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d) the claimed a memory for storing the channel number is met by RAM 9, (Fig. 1);

e) the claimed a controller for receiving the channel number output from the key input and storing the channel number output from the key input in the memory while controlling the tuner to tune to a broadcasting channel corresponding to the received channel number is met by Channel Selecting Microcomputer 3, (Fig. 6). (col.3, lines 59-64)

Considering claim 2, the claimed wherein the controller receives the signal output from the signal processor, determines whether a broadcasting signal is present in the currently tuned broadcasting channel and, stores the corresponding broadcasting channel number in the memory only if a broadcasting signal is present is met by the disclosure that the "the channel selecting microcomputer 3 will judge the respective receiving channels by the judging signal from the synchronizing circuit 7 as to whether they are signal channels or no signal channels and will have the RAM 9 memorize the data showing the channel numbers or the signal channels." (Col. 4, lines 3-8)

Considering claim 5, see rejection of claim 1.

Considering claim 6, see rejection of claim 2.

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3. Claims **1-8** are rejected under 35 U.S.C. 102(e) as being anticipated by Toyoshima et al, U.S. Pat. No. 5,512,955.

Considering claim 1, Toyoshima et al. discloses all claimed subject matter, note;

a) the claimed key input for inputting a channel number according to a user's selection is met by both Receiving Unit 7 and Operation Key 6, (Fig. 1). (see col. 3, lines 11-13)

b) the claimed a tuner for tuning to a channel corresponding to the channel number selected by the key input, among received broadcasting signals is met by Channel Select circuit 2, (Fig. 1);

- c) the claimed a signal processor for processing a composite video signal of said channel tuned and output from the tuner is met by Video Intermediate Frequency

 Amp/Detect 3, Video Signal Processing 4, and Information Signal Analysis 5, (Fig. 1);
- d) the claimed a memory for storing the channel number is met by Memory (RAM) 9, (Fig. 1);
- e) the claimed a controller for receiving the channel number output from the key input and storing the channel number output from the key input in the memory while controlling the tuner to tune to a broadcasting channel corresponding to the received channel number is met by Control Microcomputer (CPU) 8, (Fig. 6). (see col. 3, lines 7-

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Considering claim 2, the claimed wherein the controller receives the signal output from the signal processor, determines whether a broadcasting signal is present in the currently tuned broadcasting channel and, stores the corresponding broadcasting channel number in the memory only if a broadcasting signal is present is met by the disclosure that the "If an affirmative result is obtained at SP4 tile, CPU 8 proceeds to the succeeding step SP5 and receives the information signal SG from the information signal analyzing circuit 5. At step SP6, the CPU 8 writes the information of the information signal SG along with the channel number to the memory 9, and then proceeds to the succeeding step SP7." (col. 3, lines 59-64)

Considering claim **3**, Toyoshima et al. discloses all claimed subject matter, note;

a) the claimed a character signal generator for generating a character signal for indicating memorization of the channel number selected by the key input is met by the display circuit 11, Fig.1;

b) a mixer for mixing a signal output from the signal processor with a signal output from the character signal generator is met by the Video signal processing circuit 4, which receives display information from display CCT 11 and video information from video intermediate Frequency Amp/Detect, and after mixing the two signals, outputs an SVN to display 13;

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c) the claimed a display for displaying a signal output from the mixer is met by the

Display Unit 13, Fig.1.

Considering claim 4, the claimed wherein the controller controls the character signal

generator to generate a current broadcasting channel number and a character signal

indicating memorization of the channel number so that said user can easily identify the

memorized broadcasting channel is met by the Control Microcomputer (CPU) 8, which

after determining "whether [the signal] is an active channel or not" proceeds to step 5

and "receives the information signal SG from the information signal analyzing circuit 5"

then "writes the information of the information signal SG along with the channel number

to the memory 9". (col. 3, lines 55-64)

Considering claim 5, see rejection of claim 1.

Considering claim 6, see rejection of claim 2.

Considering claim 7, see rejection of claim 3.

Considering claim 8, see rejection of claim 4.

Response to Arguments

1. Applicant's arguments filed May 5,2003 have been fully considered but they are

not persuasive. Rejection follows:

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Applicant's Arguments

a)Tsukagoshi fails to disclose or suggest a controller that stores the channel number output from the key input in the memory while controlling the tuner to tune a broadcasting channel corresponding to the received channel number. For example, Tsukagoshi requires a user to press either one of an ADD/ERASE key 11 or an AUTO PROGRAM key 12 to initiate storing of channels.

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b) Indeed, Toyoshima fails to disclose or suggest a controller that stores a channel number output from a key input in a memory while controlling the tuner to tune a broadcasting channel corresponding to the received channel number.

Examiner's Response

a) Tsukagoshi discloses a channel selecting apparatus and method used in a television receiving apparatus and capable of memorizing channel data(see title). Tsukagoshi discloses a tuner 2 controlled by channel selecting microcomputer 3 which includes a RAM 9 within. The microcomputer receives input from the input apparatus 8. "In this case, the channel selecting microcomputer 3 will judge the respective receiving circuit 7 as to whether they are signal channels or no-signal channels and will have the RAM 9 memorize the data showing the channel numbers of the signal channels." (col. 4, lines 2-8) It is clear from the above the reference of Tsukagoshi teaches that the channel data received from the input apparatus is stored in RAM 9, while the microcomputer

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controls the tuner according to the designated channel by the user. (see col. 3, lines 64-66) Therefore, the argument that the Tsukagoshi does not disclose or suggest "a controller that stores the channel number output from the key input in the memory while controlling the tuner to tune a broadcasting channel corresponding to the received channel number" is considered unpersuasive. The rejection stands.

b) Toyoshima et al. discloses a TV receiver for receiving a broadcast signal and station information. Toyoshima et al. discloses a control microcomputer 8 which control the operation of the receiver. The system includes a RF signal receiver 1, channel select 2, and IR signal receiving unit 7. Specifically, Toyoshima et al. teaches that "the channel selection is performed in accordance with the channel number which is shown by the counter, at the succeeding step SP3...the CPU 8 writes the information of the information signal SG along with the channel number to the memory 9..." (col. 3, line 53-64) Therefore, the Toyoshima system teaches "a controller that stores a channel number output from a key input in a memory while controlling the tuner to tune a broadcasting channel corresponding to the received channel number", and the argument otherwise is unpersuasive.

Conclusion

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (703) 305-0019. The examiner can normally be reached on 6:30am-3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

PMN Pmvl July 3, 2003 MICHAEL H. LEE PRIMARY EXAMINER